## BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

***NAME OF WORK:- Improvements to Roads from Amruthahalli main road to Hottappa Layout in ward No. 7 Byatarayanpura, Kodigehalli sub division Job code no : 007-16-000008***

| | | | | | | | ESTIMATED COST | | 4000000.00 |
|---|---|---|---|---|---|---|---|---|---|
| Sl No | Description of work | Unit | No | L | B | D | QTY | Rate in Rs | Amount in Rs |
| 1 | KSRRB M300-2: Earth work excavation by manual means in Ordinary Soil involving an average horizontal throw up to 2mts and an average lift up to 0.5m, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications complete as per specifications. MORTH Chapter 3. | | | | | | | | |
| | (P.No.138, I.No.19.1 of PW,P&IWTD S.R 2014-15) | | | | | Cum | | | |
| | Rcc Drain Amruthahalli to Hottapa Lyt | | 2 | 248.00 | 1.20 | 1.00 | 595.20 | | |
| | Widening Portion | | 2 | 248.00 | 1.00 | 0.50 | 248.00 | | |
| | | | | | | | **843.20** | 75.60 | **63746.00** |
| | Basic Rate Rs. | 70.00 | | | | | | | |
| | Add 8% A.W Rs. | 5.60 | | | | | | | |
| | **Total Rate Rs.** | **75.60** | | | | | | | |
| 2 | KSRRB M300-52.1. Scarifying the existing granular road surface to a depth of 50mm and disposal of scarified material within all lifts and leads upto 1000 metres complete as per specifications.MORTH Specification No. 305.4.3 (P-144, Item No. 19.58 SR 2014-15) | | | | | | | | |
| | Road Amruthahalli to Hottapa Lyt | **Sqm** | 1 | 248.00 | 6.00 | | 1488.00 | | |
| | | | | | | | **1488.00** | **18.36** | **27320.00** |
| | Basic Rate Rs. | 17.00 | | | | | | | |
| | Add 8% A.W Rs. | 1.36 | | | | | | | |
| | Total Rate Rs. | 18.36 | | | | | | | |
| **3** | KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. (145, I.No. 19.64)14-15 | | | | | | | | |
| | Roads Amruthahalli to Hottapa Lyt | **Sqm** | 1 | 248.00 | 6.00 | | 1488.00 | | |
| | | | | | | | **1488.00** | **4.48** | **6669.00** |
| | **Basic Rate** | **4.15** | | | | | | | |
| | **Area Weightage @ 8%** | **0.33** | | | | | | | |
| | **Total** | **4.48** | | | | | | | |
| 4 | KSRB 4-1.2: Providing and laying in position plain cement concrete of l mix M10 With OPC cement @ 220 Kgs with 40mm and down size graded granite metal coarse aggregates @ 0.892 cum and fine aggregates @ 0.465 cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 (P. 12, I.No. 4.2) SR-2014-15 | | | | | | | | |
| | Rcc Drain Amruthahalli to Hottapa Lyt | | 2 | 248.00 | 1.20 | 0.15 | 89.28 | | |
| | | | | | | | **89.28** | **5064.12** | **452125.00** |
| | Basic Rate | 4689.00 | | | | | | | |
| | Area Weightage @ 8% | 375.12 | | | | | | | |
| | Total | **5064.12** | | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|
| 5 | KSRB 4-6.1 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specificaitons.Specification No. KBS 4.6.2 (P 15, I.No 4.28) SR-2014-15 | | | | | | | | |
| | Rcc Drain Amruthahalli to Hottapa Lyt | | 4 | 248.00 | 1.20 | | 1190.40 | | |
| | Covering Slab 7cds | | 14 | 8.00 | 0.23 | | 25.76 | | |
| | | | 14 | 2.00 | 0.23 | | 6.44 | | |
| | | | 7 | 8.00 | 0.60 | | 33.60 | | |
| | | | | | | | 1256.20 | 236.52 | 297116.00 |
| | Basic Rate | 219.00 | | | | | | | |
| | Area Weightage @ 8% | 17.52 | | | | | | | |
| | Total | **236.52** | | | | | | | |
| 6 | Providing and laying cement concrete using 20mm and down size granite jelly of ready mix concrete for RCC works laid in 15 cm thick layers and well compacted including vibrating curing etc., including smooth finish in CM 1:3, with all lead and lift etc., complete. (exculsive of cost of steel, fabrication and plastering charges)Ready mixed Cement concrete for Beams, Columns, Staircase and Roof with M-20 (1:1.5:3) (Cement-3320Kg/cum) ( P. 18, I.No. 4.49.1) SR-2014-15 | | | | | | | | |
| | Rcc Drain Amruthahalli to Hottapa Lyt | | 2 | 248.00 | 0.15 | 1.00 | 74.40 | | |
| | Covering Slab 7cds | | 7 | 8.00 | 2.00 | 0.23 | 25.76 | | |
| | | | | | | | **100.16** | 5847.12 | **585648.00** |
| | Basic Rate | 5414.00 | | | | | | | |
| | Area Weightage @ 8% | 433.12 | | | | | | | |
| | Total | **5847.12** | | | | | | | |
| 7 | KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. (P. 17, I.No. 4.46) SR-2014-15 | | | | | | | | |
| | Rcc Drain Amruthahalli to Hottapa Lyt | Cum | 2 | 248.00 | 0.15 | 1.00 | 74.40 | | |
| | Covering Slab 7cds | | 7 | 8.00 | 2.00 | 0.23 | 25.76 | | |
| | | | | | | | 100.16 | | |
| | 85.76x80Kg/Cum | | | | | | 8012.80 | | |
| | | | | | | | 8.01 | 78351.84 | **627818.00** |
| | Basic Rate | 72548 | | | | | | | |
| | Area Weightage @ 8% | 5803.84 | | | | | | | |
| | Total | 78351.84 | | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|
| 8 | KSRRB M400-17. Providing, laying, spreading and compacting graded stones aggregate to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. (P. 154 Item No. 20.18)14-15 | | | | | | | | |
| | Road Amruthahalli to Hottapa Lyt | **Cum** | 1 | 248.00 | 6.2 | 0.25 | 384.40 | | |
| | Basic Rate Rs. | 1332 | | | | | 384.40 | 1438.56 | 552982.00 |
| | Add 8% A.W Rs. | 106.56 | | | | | | | |
| | Total Rate Rs. | 1438.56 | | | | | | | |
| 9 | KSRRB M500-6. Providing and applying primer coat with bitumen emulsion on prepared surface of granular base including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. (P. 157, Item No. 21.6)14-15 | | | | | | | | |
| | Rcc Drain Amruthahalli to Hottapa Lyt | Sqm | 1 | 248.00 | 6.2 | | 1537.60 | | |
| | | | | | | | 1537.60 | 31.32 | **48158.00** |
| | Basic Rate Rs. | 29.00 | | | | | | | |
| | Add 8% A.W Rs. | 2.32 | | | | | | | |
| | Total Rate Rs. | 31.32 | | | | | | | |
| 10 | KSRRB M500-18. Providing and laying dense Graded bituminous Macadum using crushed agregates of specified grading premixed with VG30grade bituminous binder and transporting the hot mix to work site , laying to the required grade , level and allignment , rolling with smooth wheeled vibratory and tandem rollers to achieve the desired compaction as per morth table 500-10 complete in all respects complete as per specification -do- using 40/60 TPH capacity H.M.P With sensor paver Gr-11 (50mm to 75mm ) with 4% VG-30Bitumen pg 159 i.no 21.17.4 | | | | | | | | |
| | Road Amruthahalli to Hottapa Lyt | Cum | 1 | 248.00 | 6.2 | 0.05 | 76.88 | | |
| | | | | | | | 76.88 | 7914.24 | **608447.00** |
| | Basic Rate Rs. | 7328.00 | | | | | | | |
| | Add 8% A.W Rs. | 586.24 | | | | | | | |
| | Total Rate Rs. | 7914.24 | | | | | | | |
| 11 | KSSRB M500 10 Providing and applying tack coat using 80/100 grade bitumen (VG10) In boiler fitted with spray set distrubuter at the rate of 0.2 kg per sqm on existing prepared bitumenous surface cleaned with mechanical broom complete as per specification pg no : 158 Item no : 21.10.2 | | | | | | | | |
| | Rcc Drain Amruthahalli to Hottapa Lyt | Sqm | 1 | 248.00 | 6.2 | | 1537.60 | | |
| | | | | | | | 1537.60 | 11.88 | **18267.00** |
| | Basic Rate Rs. | 11.00 | | | | | | | |
| | Add 8% A.W Rs. | 0.88 | | | | | | | |
| | Total Rate Rs. | 11.88 | | | | | | | |
| 12 | KSRRB M500-19. Providing and laying bituminous concrete Using crushed agregate of spacifying grading , premixed with bituminious binder and filler , transporting the hot mx to work site , laying with paver finisher to the required grade , level and allignment , rolling with the smooth wheeled vibrator and tandem rollers to archive the desired compaction as per MORTH specification clause no 509 complete in all respects complete as per specification -do- using 40/60 TPH capacity H.M.P with sensor paver Gr - 1 (50mmto 60mm) with 5.5% CRMB 55 ( P.161 item no 21.23.3) | | | | | | | | |
| | Road Amruthahalli to Hottapa Lyt | Cum | 1 | 248.00 | 6.2 | 0.04 | 61.50 | | |
| | | | | | | | 61.50 | 9483.48 | **583272.00** |
| | Basic Rate Rs. | 8781.00 | | | | | | | |
| | Add 8% A.W Rs. | 702.48 | | | | | | | |
| | Total Rate Rs. | 9483.48 | | | | | | | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 13 | KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 (Page No. 178, Item No. 24.15) SR 2014-15 | | | | | | | | |
| | Rcc Drain Amruthahalli to Hottapa Lyt | Sqm | 2 | 248.00 | 0.1 | | 49.60 | | |
| | | | | | | | 49.60 | 475.20 | **23570.00** |
| | Basic Rate Rs. | 440.00 | | | | | | | |
| | Add 8% A.W Rs. | 35.2 | | | | | | | |
| | Total Rate Rs. | 475.2 | | | | | | | |
| 14 | Lead for Disposal of Debris shall be payable at carage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 5.00 Km ( Page No.141) | | | | | | | | |
| | Basic rate for haulage of materials as per item | | | | | | | | |
| | Average weight of earth 1.28 tonne / kg | Cum | Qty vide Item No.1 | | | | **843.20** | 72.71 | **61309.00** |
| | Basic Tate Lead Charges upto 2.00 Kms | 62.20 | | | | | | | |
| | 2x1.28x2 = | 5.12 | | | | | | | |
| | Loading and unloading | 67.32 | | | | | | | |
| | Average Weight of earth 1.28 tone/kg for 6x1.20x2.00=12.00 | 5.39 | | | | | | | |
| | | **72.71** | | | | | | | |
| | **Sub Total** | | | | | | | | **3956447.00** |
| 15 | Inspection charges 1% | | | | | | | | **39564.00** |
| | | | | | | | | | |
| 15 | Miscelleneous & Rounding off | | | | | | | | **3989.00** |
| | | | | | | | | **Toatl Rs.** | **4000000.00** |
| | **(Rupees:- Forty Lakhs Only)** | | | | | | | | |

**CERTIFICATE:**

1 The work spot has been inspected me and the work is found to be necessary.
2 The estimate is prepared as per PW, P&IWTD S.R Bangalore circle for the year 2014-2015
3 The Provisions made in the estimate are quite necessary and adequate.
4 The area comes with in the BBMP limits.

Junior Engineer
Ward No. 07

Assistant Executive Engineer
Kodigehalli sub Division
BBMP

Executive Engineer
Byatarayanapura Division
BBMP

ADMINISTRATIVELY SANCTIONED FOR Rs 40.00 lacs

Rupees Forty lakhs only

Under P.3089

Registered as EE ( ) No 3.....9....

Subject to conditions contained in enclosed memo EE ( ) No /9/...

Dt Estimate A/Sanctioned No JC(N)/PPR/AS/20/2015-16,

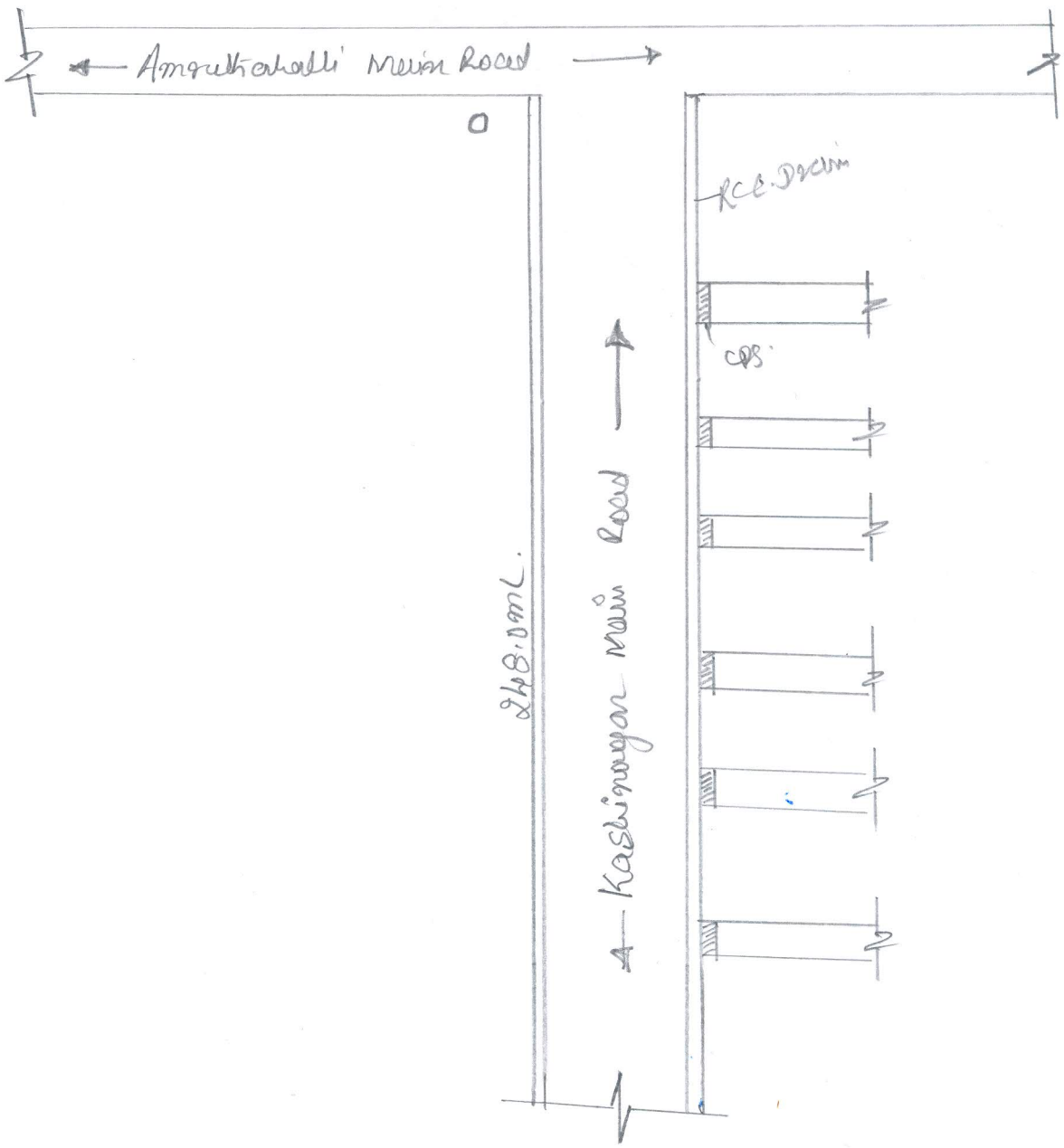
dated 20/8/2015 Rs 40.00 lacs

Joint Commissioner
(Yelahanka Zone)
BBMP. Bengaluru-92

**Technical Sanction**
**Accorded For** 40.00 lakhRs.
**Head of A/C** P3089
**CER NO :** 33 **Dt:** 21.8.15

TA CE (YNK)

me of Works: Improvements to Roads from Amruthahalli Main Road to Hottappa Layout in Ward no 7. Byatarayanapura Kodigehalli Sub division.
Est Cost Rs 40.00 Lakhs. Job no: 007-16-000008.




Temp JE
J.E.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಕೊಡಿಗೇಹಳ್ಳಿ ಉಪವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಬೆಂಗಳೂರು-92